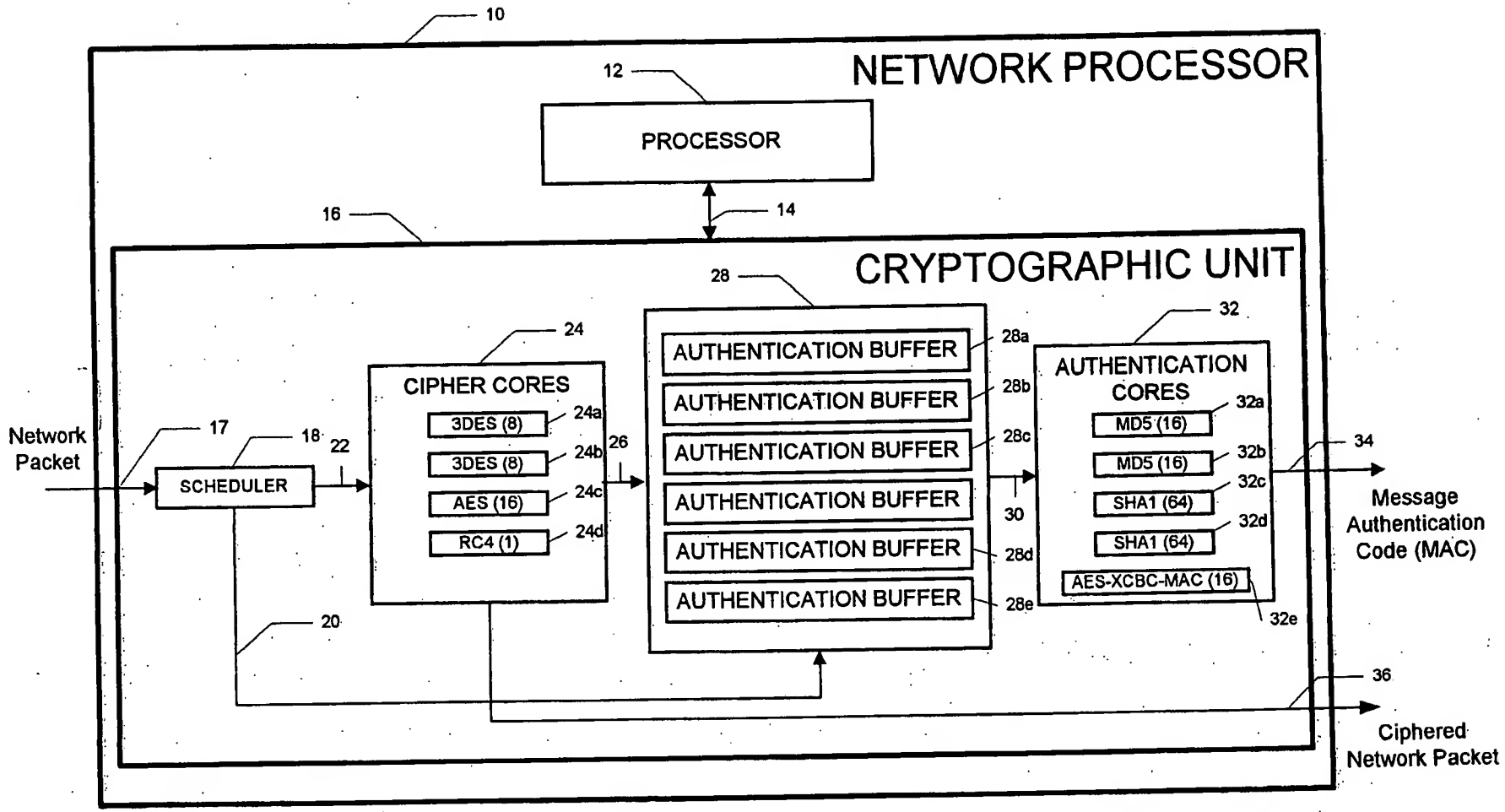
10
NETWORK PROCESSOR
12
PROCESSOR
14
16
CRYPTOGRAPHIC UNIT
28
24
CIPHER CORES
3DES (8)
24a
3DES (8)
24b
AES (16)
24c
RC4 (1)
24d
AUTHENTICATION BUFFER
28a
AUTHENTICATION BUFFER
28b
AUTHENTICATION BUFFER
28c
AUTHENTICATION BUFFER
AUTHENTICATION BUFFER
28d
AUTHENTICATION BUFFER
28e
32
AUTHENTICATION CORES
MD5 (16)
32a
MD5 (16)
32b
SHA1 (64)
32c
SHA1 (64)
32d
AES-XCBC-MAC (16)
32e
Network Packet
17
18
SCHEDULER
22
26
30
34
Message Authentication Code (MAC)
20
36
Ciphered Network Packet

FIG. 1

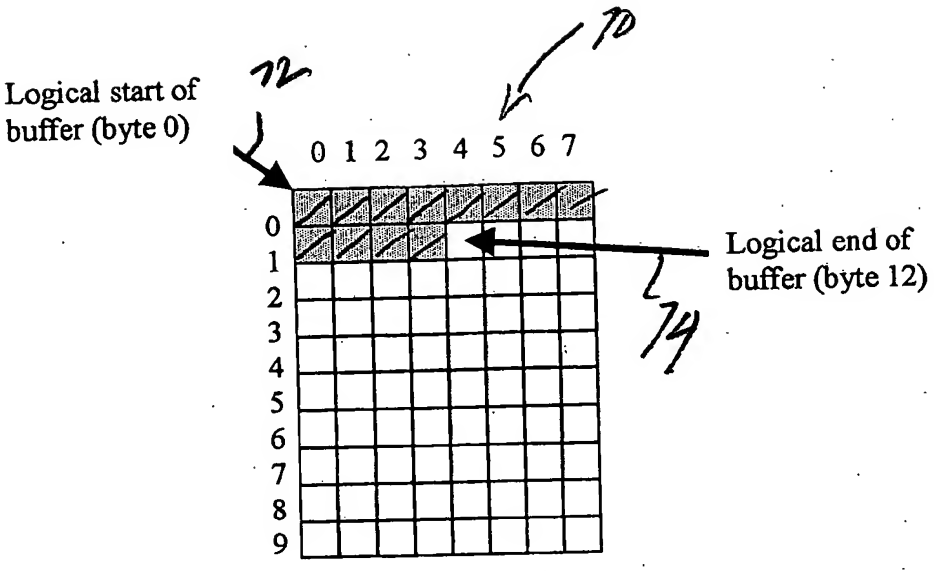

FIG. 2

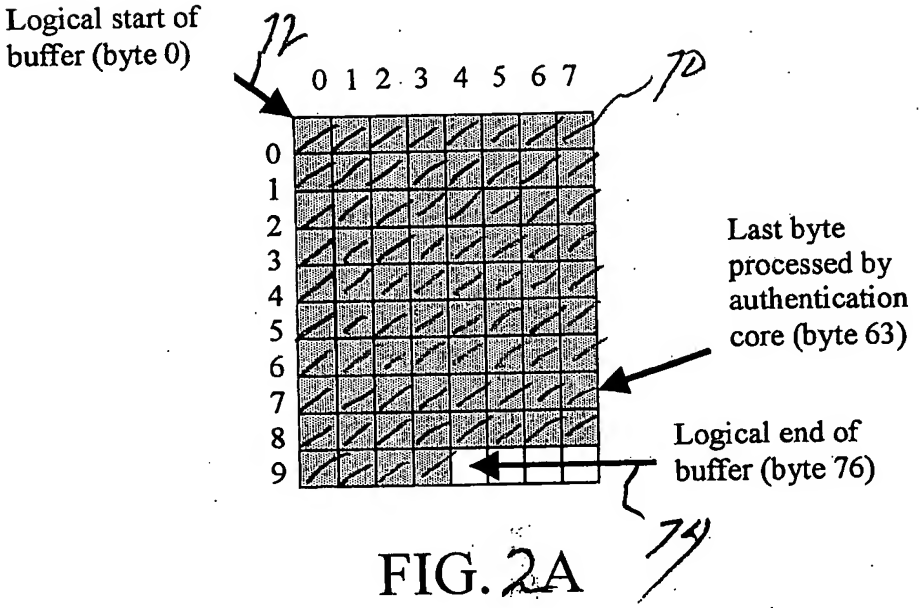

FIG. 2A

BEST AVAILABLE COPY

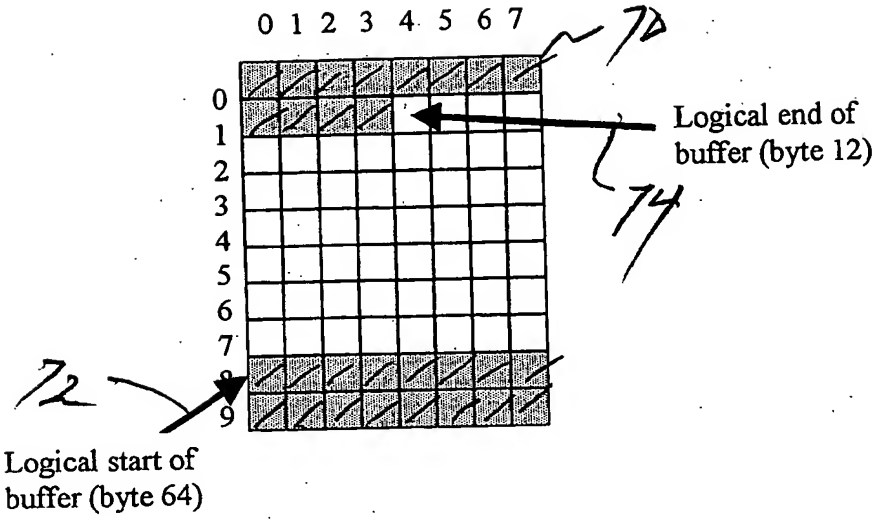

FIG. 2B

BEST AVAILABLE COPY

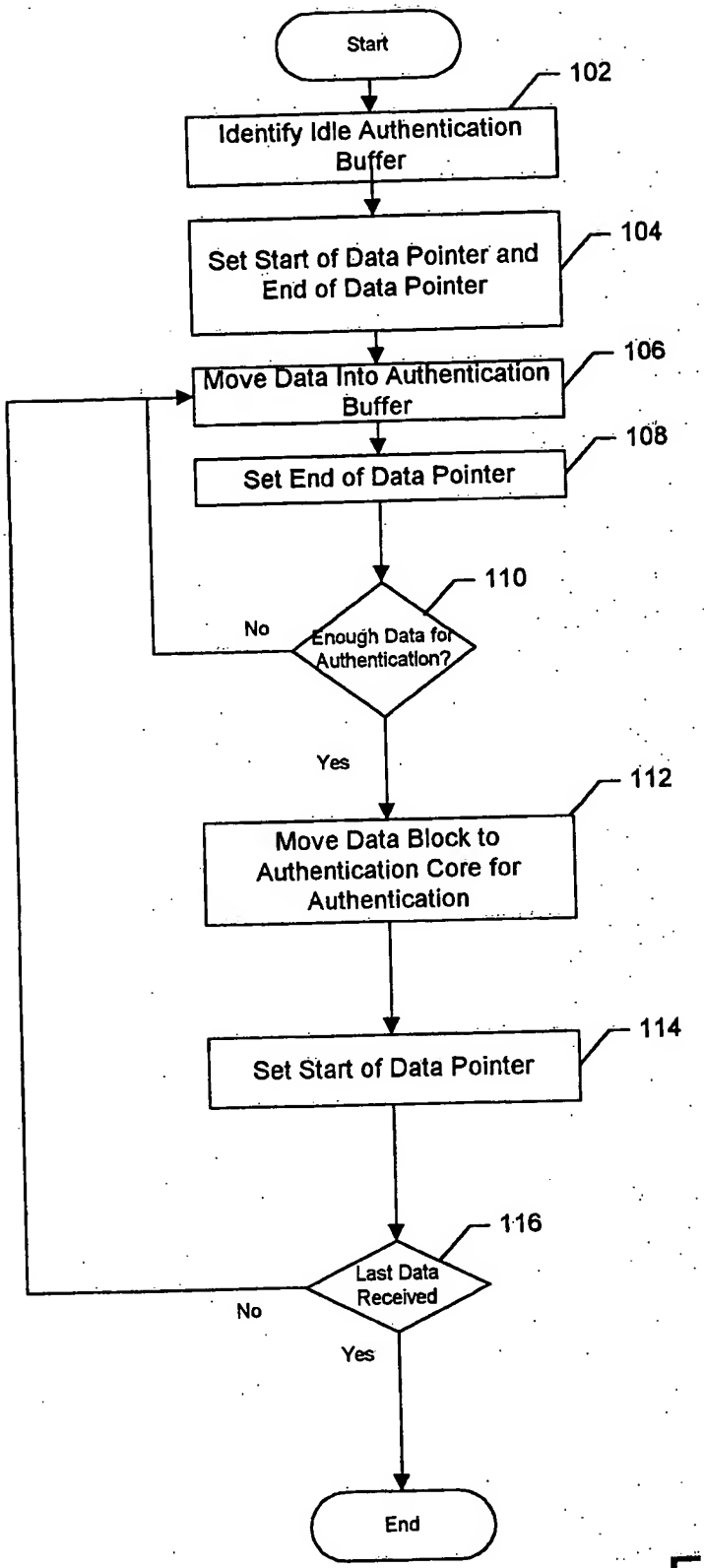

FIG. 3

BEST AVAILABLE COPY